TOPOGRAPHIC SURVEY CONTROL POINT RECORD

STATION LONG NAME	MU11	
STATION NUMBER	MU11	
4 CHAR ID	MU11	
COUNTRY	IRAQ	
LOCATION	AL MUTHANNA	
SURVEYING AGENCY	IGRS	
DATE (OF DESCRIPTION)	09 JUL 2005	

CONTENTS	YES	NO	NO OF PAGES
FIELD COORDINATE VALUES	Х		1
OFFICE COORDINATE VALUES	Х		1
STATION MONUMENT & SITE DETAILS	Х		1
STATION DIAGRAM	Х		1
ACCESS MAP	Х		1
ACCESS DESCRIPTION	Х		1
APPROACH PHOTOGRAPHS	Х		1
CARDINAL POINT PHOTOGRAPHS	Х		2

RECORD OF VISITS

DATE OF VISIT	NAME	UNIT	REMARKS

ADDITIONAL DETAILS/ENCLOSURES

CONTENTS	NO OF PAGES

SECURITY CLASSIFICATION

FIELD COORDINATE VALUES

STATION LONG NAME	MU11
4 CHAR ID	MU11
STATION NUMBER	MU11

THIS STATION IS NEW	YES
IDENTICAL / NEARLY IDENTICAL WITH	N/A

FIELD VALUES FROM THE RECEIVER / HAND HELD GPS – IN WGS84

LATITUDE N/S	29°53′14.2" N		
LONGITUDE E/W	046°38'42.3" E		
HT (M)	+160		
GRID ZONE DESIGNATOR	38R		
UTM / MGRS GRID	38R PU 58800 07400		
SURVEYING AGENCY	IGRS		

FIELD INPUT BY: L/CPL COWARD	UNIT: IGRS	DATE: 09 JUL 05
FIELD CHECKED BY: CPL RIGGOT	UNIT: IGRS	DATE: 09 JUL 05

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OFFICE COORDINATE VALUES

WGS 84 ADJUSTED VALUES AS AT: 25 Aug 05

LATITUDE N	29° 53' 14.83922''	
LONGITUDE E	046° 38' 42.14449''	
SPHEROIDAL HT (M)	160.941	
EGM96 GEOID MODEL HT (M)	-10.828	
ORTHOMETRIC HT (M)	171.769	
VERTICAL DATUM	WGS 84	
GEOID MODEL USED	EGM 96	
RELATIVE TO	CORS STATIONS	
RELATIVE POSITION ACCURACY (M)	0.010	
RELATIVE HEIGHT ACCURACY (M)	0.020	
ADJUSTING AGENCY	OPUS	
ADJUSTMENT DATE	25 AUG 2005	

LOCAL DATUM VALUES AS AT: 25 Aug 05

SPHEROID	N/A
PROJECTION	N/A
GRID	N/A
VERTICAL DATUM	N/A
LATITUDE N/S	N/A
LONGITUDE E/W	N/A
EASTINGS (M)	N/A
NORTHINGS (M)	N/A
SPHEROIDAL HT (M)	N/A
ORTHOMETRIC HT (M)	N/A
GRID ZONE DESIGNATOR	N/A
TRANSFORMATION AGENCY	N/A
TRANSFORMATION DATE	N/A

GRAVITY VALUE: N/A	TYPE OF STN: N/A	REF: N/A
AIR PHOTO: N/A	REF: N/A	SCALE: N/A
IMAGERY: N/A	REF: N/A	SCALE: N/A

OFFICE INPUT BY: LCPL COWARD	UNIT: IGRS	DATE: 25 AUG 2005
OFFICE CHECKED BY: LCPL DICKEN	UNIT: IGRS	DATE: 25 AUG 2005

STATION MONUMENT AND SITE DETAILS

STATION LONG NAME: MU11

STATION NUMBER: MU11 4 CHAR ID: MU11

LOCATION: AL MUTHANNA COUNTRY: IRAQ

STATION ADDRESS:

N/A

TEL: N/A FAX: N/A

LAND OWNER ADDRESS:

N/A

TEL: N/A FAX: N/A

TYPE OF MARK: HARN

CONDITION: GOOD

MARK SETTING: REBAR NO OF REBARS: 6

MONUMENT PHOTO / SKETCH

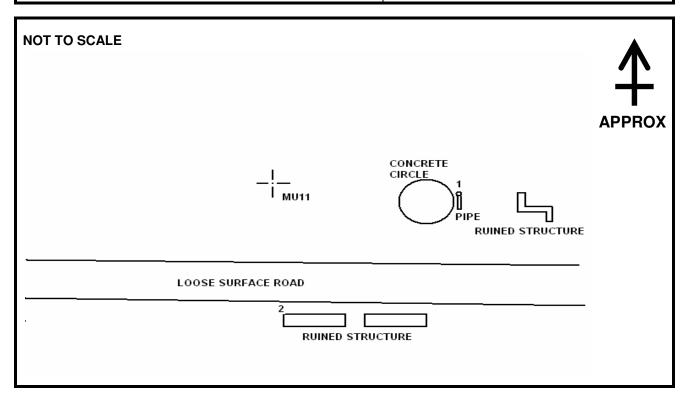


PREPARED BY: L/CPL COWARD	UNIT: IGRS	DATE: 09 JUL 05
CHECKED BY: CPL RIGGOTT	UNIT: IGRS	DATE: 09 JUL 05

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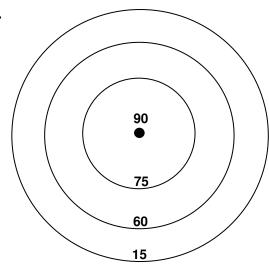
STATION DIAGRAM

STATION LONG NAME: MU11
STATION NUMBER: MU11 4 CHAR ID: MU11



NO	DESCRIPTION	BRG/HORZ ANGLE	DISTANCE
1	PIPE	293°	18.35m
2	WEST CORNER OF RUINED STRUCTURE	2°	24.67m
3			
4			

OBSCURITY DETAILS



PREPARED BY: LCPL COWARD	UNIT: IGRS	DATE: 10 JUL 05
CHECKED BY: CPL RIGGOTT	UNIT: IGRS	DATE: 10 JUL 05

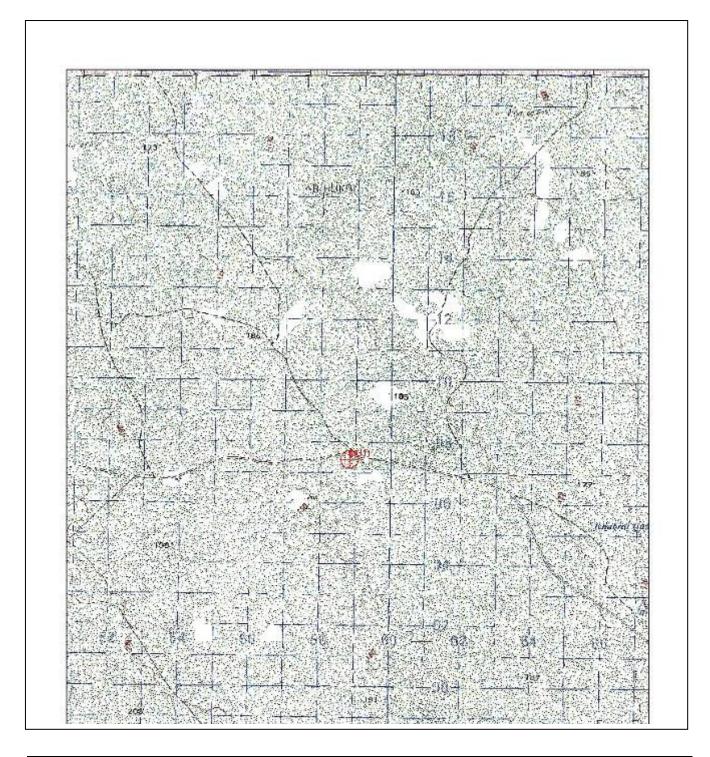
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REVISION DATE: 05 FEB 98 TOPO FORM 01e

ACCESS MAP

STATION LONG NAME: MU11
STATION NUMBER: MU11 4 CHAR ID: MU11

MAP DETAILS	SERIES: K643	SHEET: 5349
EDITION: 2-NIMA	SCALE: 1:100 000	GR: 38R PU 58800 07400



PREPARED BY: SPR WILLIE	UNIT: IGRS	DATE: 10 JUL 05
CHECKED BY: L/CPL COWARD	UNIT: IGRS	DATE: 10 JUL 05

ACCESS DESCRIPTION

STATION LONG NAME: MU11
STATION NUMBER: MU11 4 CHAR ID: MU11

MAP DETAILS	SERIES: K643	SHEET: 5349
EDITION: 2-NIMA	SCALE: 1:100 000	GR: 38R PU 58800 07400

From major road junction East of As Samawah Grid reference 38R PV 304 008. Follow metal road South for approximately 79km up to junction at Grid Reference 38R PU 064 319. Travel in a southerly direction for approximately 18km where the tracks bear east. Travel in an easterly direction for approximately 47km to Grid Reference 38R PU 588 074 The point is near a circle bit cast of concrete with a metal pipe standing approx 3ft high. HARN identified by orange Survey Maker marks the point. The fine point is an indent on the head of rebar/rod.

PREPARED BY: SPR WILLIE	UNIT: IGRS	DATE: 10 JUL 05
CHECKED BY: L/CPL COWARD	UNIT: IGRS	DATE: 10 JUL 05

APPROACH PHOTOGRAPHS

STATION LONG NAME: MU11

STATION NUMBER: MU11 4 CHAR ID: MU11

NEAR APPROACH FACING NORTH



FAR APPROACH FACING NORTH WEST



TAKEN BY: LCPL COWARD DATE TAKEN: 09 JUL 05

CARDINAL PHOTOGRAPHS

STATION LONG NAME: MU11

STATION NUMBER: MU11 4 CHAR ID: MU11

NORTH



SOUTH



TAKEN BY: LCPL COWARD DATE TAKEN: 09 JUL 05

CARDINAL PHOTOGRAPHS

STATION LONG NAME: MU11

STATION NUMBER: MU11 4 CHAR ID: MU11

EAST



WEST



TAKEN BY: LCPL COWARD DATE TAKEN: 09 JUL 05